

Constructed Graywater Wetland for Immaculate Heart of Mary

Location: Monroe, Michigan

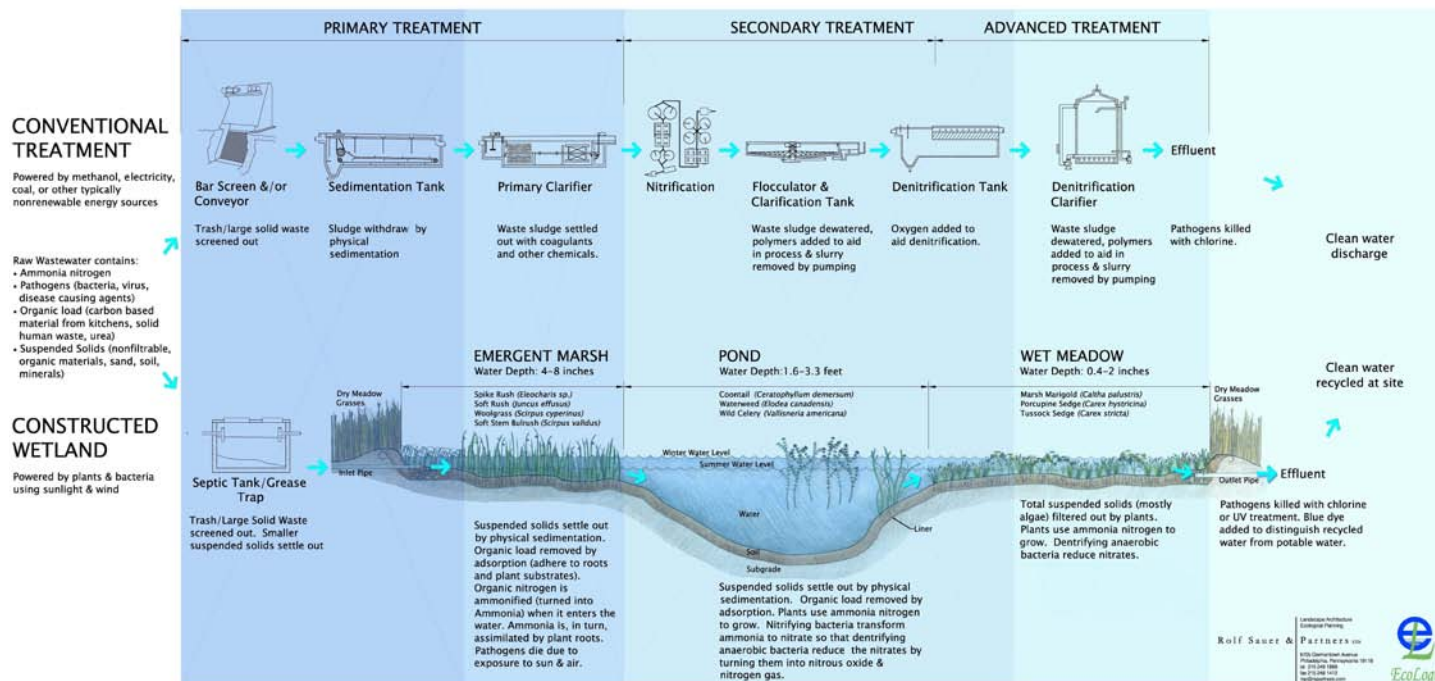
Status: Completed in 2003

Client: Sisters, Servants of the Immaculate Heart of Mary

“a graywater recycling system, ...will reduce overall fresh water consumption by over 50%”



WASTEWATER TREATMENT SYSTEMS



“In spite of adding 305 new bathrooms to the Motherhouse, by using high-velocity, low-flow fixtures and fittings and a graywater recycling system, we will reduce overall fresh water consumption by over 50%. A separate piping system collects used water from sinks and showers in the Motherhouse. This is called ‘graywater.’ The pipes route the graywater to a constructed wetland on the campus. The constructed wetlands, mimicking nature’s purification system, cleanse the graywater and recycle it back into the Motherhouse for flushing toilets.” Viridian Landscape Studio consulted with John Roebig and Mannik & Smith on the graywater recycling system. “In addition, the use of vegetated swales and wet meadows enables us to divert almost a million gallons of water a year from the municipal storm sewer systems.”